

Amendments To the Abstract

Please replace the Abstract with following amended Abstract:

Abstract of the Disclosure

The invention relates to the field of chemistry and relates to radically Radically coupled PTFE polymer powders that can be used useful, for example, as tribomaterials, and a method for the production thereof. The object of the invention is to disclose radically Radically coupled PTFE polymer powders are provided which, when incorporated into a matrix as PTFE polymer compound, exhibit improved wear resistances, and furthermore there is provided a simple and efficient method for the production thereof. The object is attained through radically Radically coupled PTFE polymer powders are provided comprising radiation-chemically and/or plasma-chemically modified PTFE powders, onto the particle surface of which homopolymers, copolymers or terpolymers are radically coupled via a reaction in dispersion or in substance. The object is further attained through a A method is provided in which PTFE powders with reactive perfluoroalkyl-(peroxy) radical centers after a radiation-chemical and/or plasma-chemical modification are reacted in dispersion or in substance with the addition of polymerizable, olefinically unsaturated monomers, whereby during the reaction a polymer-forming reaction is obtained.